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☐ 1. Document ID: JP 03285271 A

L1: Entry 1 of 2 File: JPAB Dec 16, 1991

PUB-NO: JP403285271A
DOCUMENT-IDENTIFIER: JP 03285271 A
TITLE: BATTERY

PUBN-DATE: December 16, 1991

INVENTOR-INFORMATION:

NAME	COUNTRY
IWAKURA, CHIAKI	
FUKUMOTO, YUKIO	
FURUKAWA, SANEHIRO	
NAKANE, IKUROU	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SANYO ELECTRIC CO LTD	

APPL-NO: JP02074442
APPL-DATE: March 23, 1990

INT-CL (IPC): H01M 10/40

ABSTRACT:

PURPOSE: To improve the charge efficiency of lithium which is a negative electrode and improve the cycle characteristic of a battery by adding a pyridine having a specified composition or a derivative of pyridine into an electrolyte.

CONSTITUTION: A nonaqueous electrolytic secondary battery is formed of a negative electrode 4 having lithium or an alloy containing lithium as an active material, a positive electrode 6 having molybdenum dioxide, vanadium pentoxide, oxide or selenoid of niobium, manganese dioxide, cobalt dioxide, or compounds of these materials with lithium as an active material, and an electrolyte. A pyridine or a derivative of pyridine represented by the generation formula (R1-R5 represent hydrogen or alkyl groups) is added into this electrolyte. Hence, a battery having extremely long charge/discharge cycle life can be obtained.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Clip Img | Image

☐ 2. Document ID: JP 03285271 A JP 2975627 B2

L1: Entry 2 of 2 File: DWPI Dec 16, 1991

DERWENT-ACC-NO: 1992-038081
DERWENT-WEEK: 199953

TITLE: Non-aq. electrolyte sec. battery with excellent cycle life, etc. - has electrolyte contg. pyridine or its deriv. and thiourea or aldehyde cpd.

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SANYO ELECTRIC CO	SAOL

PRIORITY-DATA: 1990JP-0074442 (March 23, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 03285271 A	December 16, 1991		006	
JP 2975627 B2	November 10, 1999		006	H01M010/40

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 03285271A	March 23, 1990	1990JP-0074442	
JP 2975627B2	March 23, 1990	1990JP-0074442	
JP 2975627B2		JP 3285271	Previous Publ.

INT-CL (IPC): H01M 10/40

ABSTRACTED-PUB-NO: JP 03285271A
BASIC-ABSTRACT:

The battery has a cathode contg. Li or Li alloy as cathode active component, an anode containing Mo dioxide, V pentoxide, Nb oxide, selenide, Mn dioxide, Co dioxide or a mixt. of the material and Li as anode active component, and electrolyte liquid. The improvement is that the electrolyte liq. contains pyridine or pyridine derivative (I), thiourea (II) or aldehyde (III) R1-R5 is H or alkyl group.

(I) is e.g. dimethyl pyridine, trimethyl pyridine, methyl pyridine, ethyl pyridine, diethyl pyridine, methyl ethyl pyridine or dimethyl ethyl pyridine etc. Aldehyde (III) is e.g. p-anisaldehyde. The electrolyte solution contains a solvent selected from propylene carbonate, ethylene carbonate, 2-methyl-tetrahydrofuran or dimethoxyethane etc.

USE/ADVANTAGE - Excellent charging efficiency and cycle life.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: NON AQUEOUS ELECTROLYTIC SEC BATTERY CYCLE LIFE ELECTROLYTIC CONTAIN PYRIDINE DERIVATIVE THIOUREA ALDEHYDE COMPOUND

DERWENT-CLASS: E19 L03 X16

CPI-CODES: E07-D04C; E10-A13A; E10-D01D; E10-E02D2; E10-F02A2; L03-E01C; L03-E03;

EPI-CODES: X16-B01F1; X16-J02; X16-J08;

CHEMICAL-CODES:

Chemical Indexing M3 *01*
Fragmentation Code
F000 F012 F013 F014 F015 F016 F431 M210 M211 M212
M213 M214 M215 M231 M232 M233 M240 M280 M281 M282
M283 M320 M413 M510 M521 M530 M540 M781 M903 M904
Q454 R023
Markush Compounds

199205-D5501-U

Chemical Indexing M3 *02*
Fragmentation Code
G011 G012 G013 G100 H401 H441 H541 H8 J431 J581
M210 M211 M212 M213 M214 M215 M231 M232 M233 M262
M272 M280 M281 M320 M414 M510 M520 M531 M540 M781
M903 M904 Q454 R023
Markush Compounds
199205-D5502-U

Chemical Indexing M3 *03*
Fragmentation Code
K0 L4 L420 M280 M320 M416 M620 M781 M903 M904
M910 Q454 R023
Specfic Compounds
00235U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0235U

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1992-016781
Non-CPI Secondary Accession Numbers: N1992-029091

Terms	Documents
jp-03285271-$.did.	2

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Previous Page Next Page